



#140 Declaration
6/19/99
B. Bruchmann

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

In re Application of Bruchmann et al

Serial No. 08/894,156

Filed: August 15, 1997

For: Preparation of biuret-containing polyisocyanates

D E C L A R A T I O N

I, Bernd Bruchmann, a doctor of natural sciences, a citizen of the Federal Republic of Germany and residing at Bahnhofstrasse 58, 67251 Freinsheim, Germany, declare as follows:

I am a fully trained chemist, having studied chemistry at the University of Clausthal from 1977 to 1984;

I obtained my doctor's degree from the said university in 1988;

I joined BASF Aktiengesellschaft of 67056 Ludwigshafen, Germany, and since 1988 I have been working in the field of polyurethane chemistry;

I am one of the inventors of the invention disclosed and claimed in Application Ser. No. 08/894,156 and am therefore familiar with the contents thereof;

I have read the Office Action of February 2, 1999 and declare as follows:

Möhring et al states that it is a specific feature of the process of their invention that the resulting polyisocyanate mixtures contain allophanate polyisocyanates (see US 4,152,350 col. 3, l. 41 and 4,192,936, col. 3, l. 45).

However, the products obtained by the process of the instant application contain only insignificant amounts of allophanate.

The allophanate contents of two Examples, Example 9 and a new Example 10 were determined by gel permeation chromatography, the different compounds being detected by a refractometer.

Example 10 was prepared according to the general preparation procedure given in the instant application (see page 8). A mixture of tert-butanol/water (molar ratio 10/1) was used as biuretizing agent.

The surface area of the allophanate peaks in relation to that of the biuret peaks was 1.2% (Example 9) and 1.6% (Example 10). The relation of the surface area of the peaks corresponds to the relation of the parts by weight of the respective compounds.

This experiments show that the process of the instant application leads to biurets which contain only very small amounts of allophanate.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information or belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signed at 67056 Ludwigshafen, Germany, this 17th day of May 1999.

Signature of Declarant

